Service instructions

for heating engineers

Electric immersion heater EHO
part no. 7265 124,
part no. 7265 197 and
part no. 7265 198

Electric immersion heater EHO

**Electric immersion heater EHO,
installed in Vitocell-V 300, type EVI**

5692 415 GB 3/2001

File in: service folder or keep separate from the equipment

Safety instructions

⚠ *Please follow these safety instructions closely to prevent accidents and material losses.*
These safety instructions also apply in conjunction with heat generators.

Work on the equipment
Installation, initial start-up, maintenance and repairs must only be carried out by a competent person (heating engineer/installation contractor) (EN 50 110, part 1, and VDE 1000, part 10, or local regulations).

Before working on the equipment/ heating system, isolate the mains electrical supply (e.g. by removing a separate fuse or by means of a mains electrical isolator) and safeguard against unauthorised reconnection.
Disconnect the system from the mains power supply by means of a device which simultaneously isolates all non-earthed conductors with at least 3 mm contact separation.

Work requiring the control unit to be opened must not subject internal components to electrostatic discharges.

Gas installation work
This must only be carried out by an approved contractor.
Please observe all commissioning work specified acc. to TRGI '86/96 or TRF 1996 for gas systems.

Repair work
It is not permitted to carry out repairs on parts that fulfil a safety function.
Use only original Viessmann spare parts or equivalent parts that have been approved by Viessmann.

Initial start-up
This must be carried out by the system installer or a designated commissioning engineer; all readings should be recorded in a commissioning report.

Instructing the system user
The system installer must hand the system operating instructions to the user and instruct him/her in the operation of the system.

⚠ ***Safety instructions***
This denotes instructions which must be observed to prevent accidents and material losses.

This symbol is a reference to other instructions which must be observed.

Applicability

Electric immersion heater EHO acc. to DIN VDE 0700

Part no. 7265 124
for installation in
Vitocell-V 100
type CVA
300 and 500 litres

Part no. 7265 197
for installation in
Vitocell-V 300
type EVI

Part no. 7265 198
for installation in
Vitocell-B 100
type CVB
and
Vitocell 333
type SVK

for heating DHW up to 80 °C.

Contents

Page

General Information

Safety instructions 2

Applicability 2

Initial start-up and maintenance

Implementation 4
- Shutting down the heating system 4
- Checking connections 4
- Checking safety equipment 4
- Changing the thermostat setting 5
- Starting the heating system 5

Troubleshooting

Resetting the high limit safety cut-out 6

Additional information

Electrical connection 7

Parts list 8
- Electric immersion heater EHO, part no. 7265 124, for Vitocell-V 100, type CVA 8
- Electric immersion heater EHO, part no. 7265 198, for Vitocell-B 100, type CVB and Vitocell 333, type SVK 9
- Electric immersion heater EHO, part no. 7265 197, for Vitocell-V 300, type EVI 10

Commissioning/service report 11

Declaration of conformity 12

5692 415 GB

Implementation

For commissioning the electric immersion heater EHO, see also the operating instructions.

⚠ ***Safety instructions***
The electric immersion heater EHO may only be taken into use after the DHW cylinder has been properly filled and is under operating pressure.

Only open the heating water connections after the DHW cylinder has been de-pressurised.

Only drain the DHW cylinder with a vacuum pump when the air vent valve is open.

Maintenance

1. System shutdown

Isolate the mains electricity supply and safeguard against unauthorised reconnection.

Initial start-up | Maintenance

2. Checking connections

Check the compression fittings for leaks and tighten if necessary.

Initial start-up | Maintenance

3. Checking all safety equipment

Check the function of safety valves according to manufacturer's instructions.

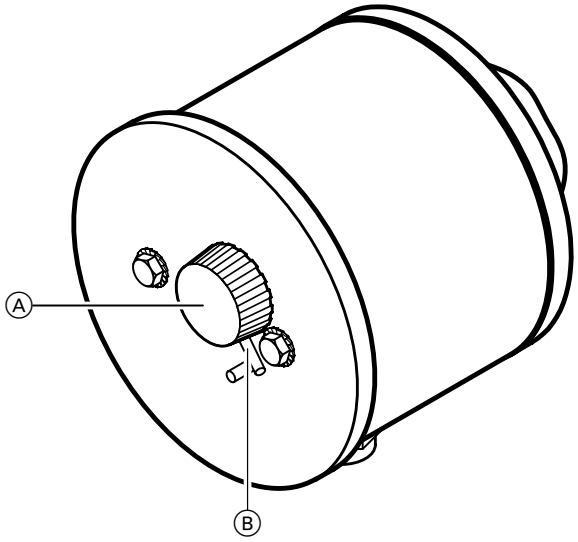
Implementation (cont.)

Initial start-up | Maintenance

4. Changing the thermostat setting

"As delivered" condition
The thermostat may be set to a value between 30 and 60 °C.
The frost protection temperature is approx. 5 °C.

Adjustment options
The upper limit may be changed to 80 °C.



1. Pull rotary selector Ⓐ off the thermostat.
2. Extract spigot Ⓑ with a pair of pliers from the rotary selector.
3. Push rotary selector Ⓐ onto the thermostat.
4. Tick the operating instructions to mark the changeover of the thermostat.

⚠ ***Safety instructions***
The maximum DHW temperature must not be exceeded. If necessary, installed a suitable safety device for this purpose.

Initial start-up | Maintenance

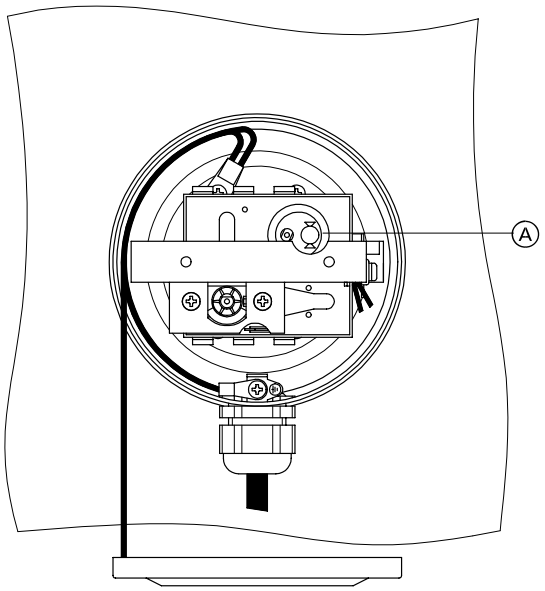
5. System start-up

1. Set any installed pressure reducer to the required operating pressure (max. operating pressure 10 bar).
2. Check whether the electrical connection is secure and meets the appropriate requirements.
3. Switch on the mains power.
4. Commission the electric immersion heater EHO and monitor the initial heating up.
5. Check all heating modes (electric immersion heater EHO and possibly heating by boiler).
6. Record the work carried out in the commissioning/service report.

→ ***Please note:***
You will find the commissioning/ service report on the penultimate page of this manual.

Resetting the high limit safety cut-out

Please note:
The high limit safety cut-out must be reset, if it has been activated (switch-off point: 100 °C $^{+0\,K}_{-8\,K}$).

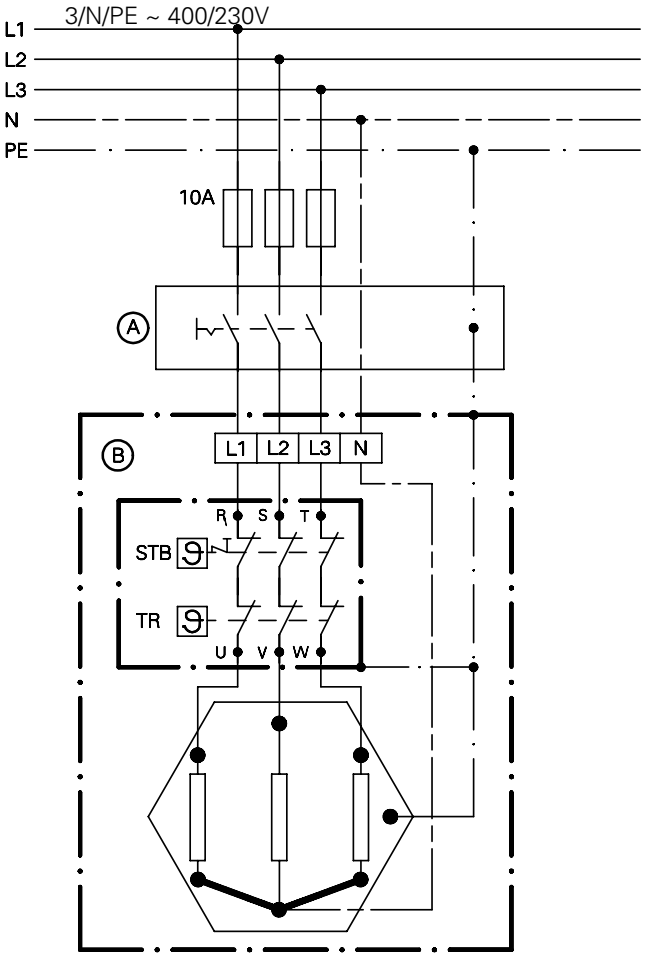


1. Isolate the electric immersion heater EHO supply cable and safeguard against re-connection.
2. Remove the cap.
3. Press reset button Ⓐ on the thermostat/high limit safety cut-out.
   The high limit safety cut-out will reset.

Electrical connection

⚠ ***Safety instructions***
Observe the relevant DIN standards and VDE regulations (in particular VDE regulation 0100) as well as the technical requirements of local energy suppliers and water authorities, and all other local regulations.

Provide a facility in the electric immersion heater power supply cable which can separate all conductors from the mains supply with at least 3 mm contact separation (except the neutral conductor).
Connection cable: H05VV-F



Ⓐ 3-pole switch
Ⓑ Electric immersion heater

The electric immersion heater can be operated with three output stages. The output is determined by the way the electric immersion heater is connected.

Type of connection		Output
single phase	(L1)	2 kW
two phase	(L1 and L2)	4 kW
three phase	(L1, L2 and L3)	6 kW

Parts list

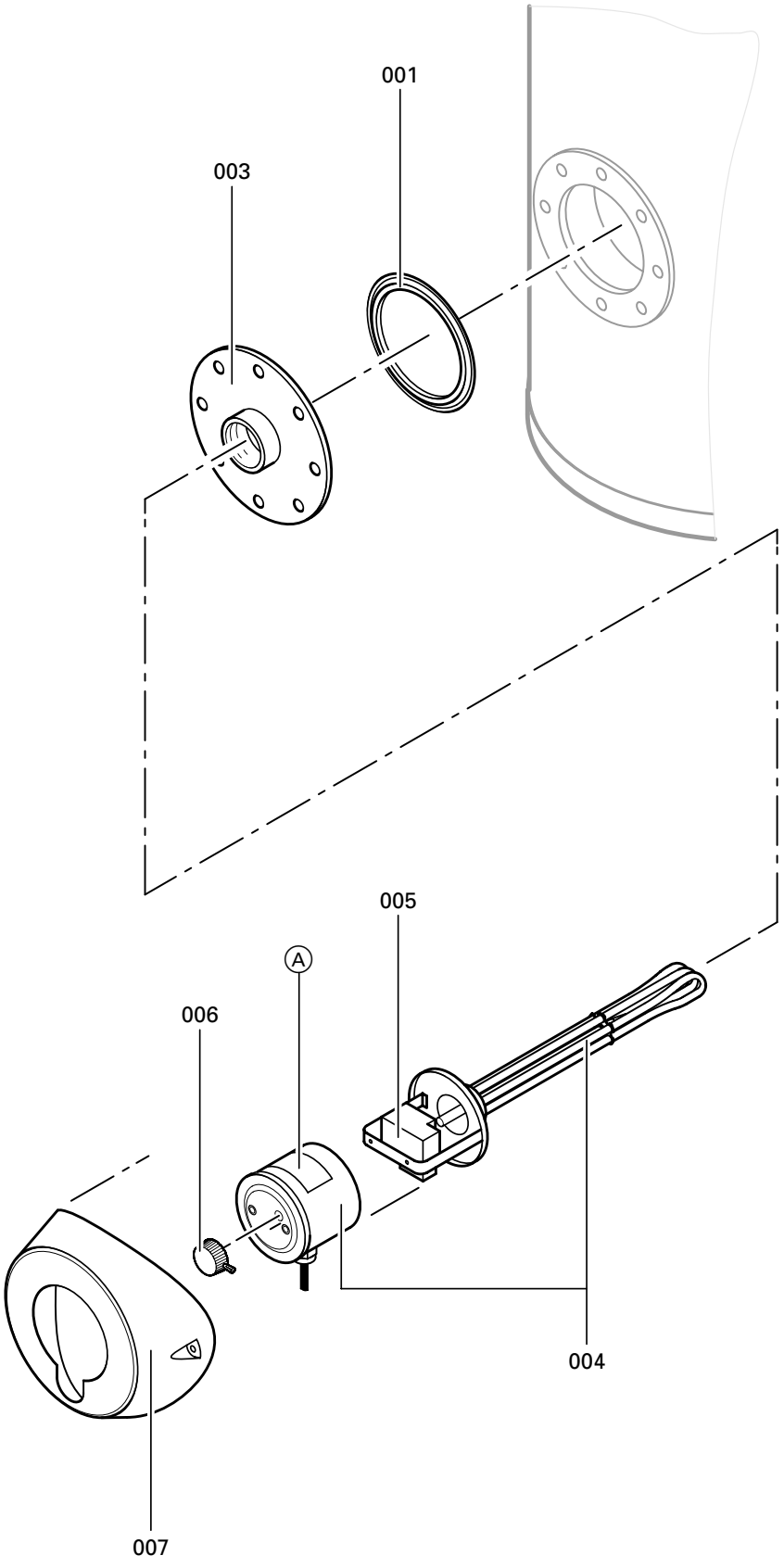
Electric immersion heater EHO, part no. 7265 124, for Vitocell-V 100, type CVA

When ordering spare parts:
Quote the part and serial no. of the equipment (see type plate) and the item no. of the required part (as per parts list).
Obtain common parts from your local supplier.

Parts
001 Gasket
003 Flange (incl. item 001)
004 Threaded immersion heater
005 Combination thermostat/high limit safety cut-out
006 Rotary selector
007 Cover

Parts (not shown)
010 Installation instructions
011 Operating instructions
013 Service instructions

Ⓐ Type plate



5692 415 GB

Parts list (cont.)

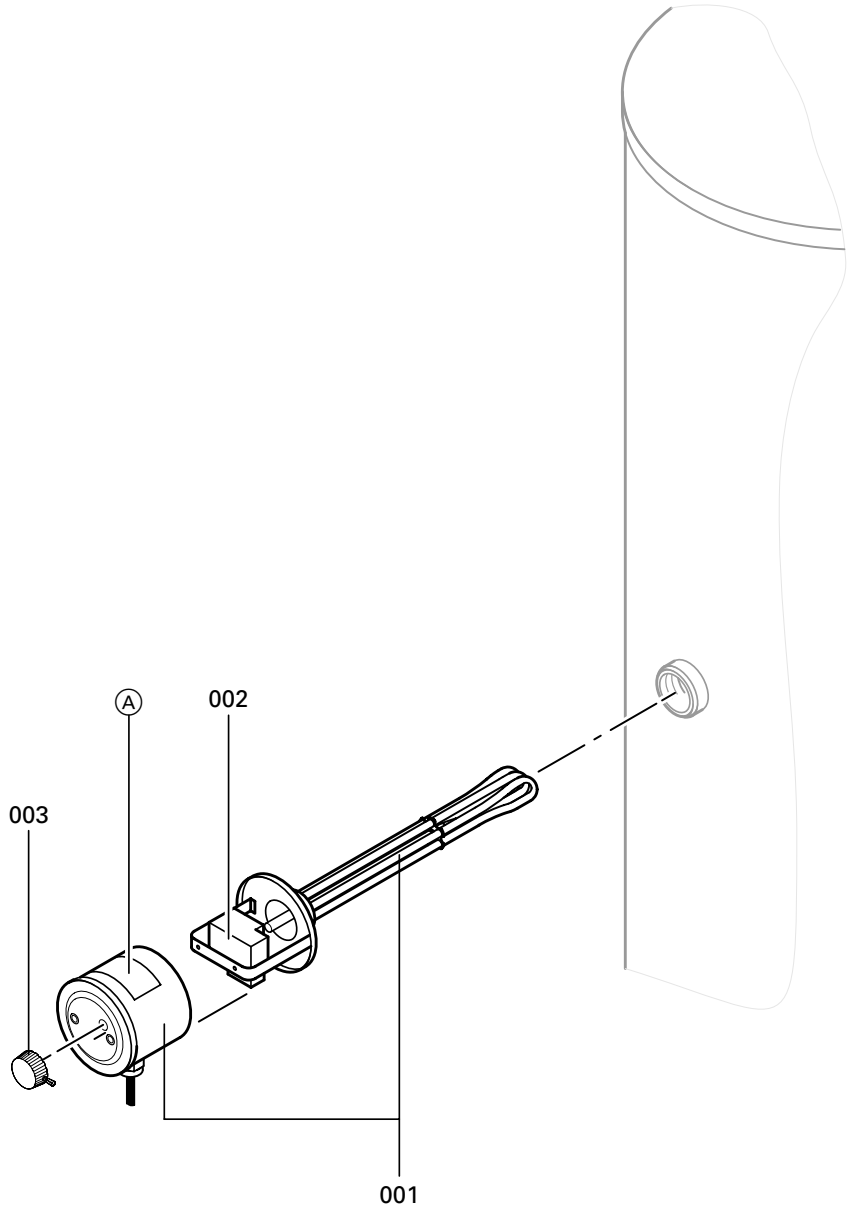
Electric immersion heater EHO, part no. 7265 198, for Vitocell-B 100, type CVB, and Vitocell 333, type SVK

When ordering spare parts:
Quote the part and serial no. of the equipment (see type plate) and the item no. of the required part (as per parts list).
Obtain common parts from your local supplier.

Parts
001 Threaded immersion heater
002 Combination thermostat/high limit safety cut-out
003 Rotary selector

Parts (not shown)
010 Installation instructions
012 Service instructions
013 Operating instructions

Ⓐ Type plate



Parts list (cont.)

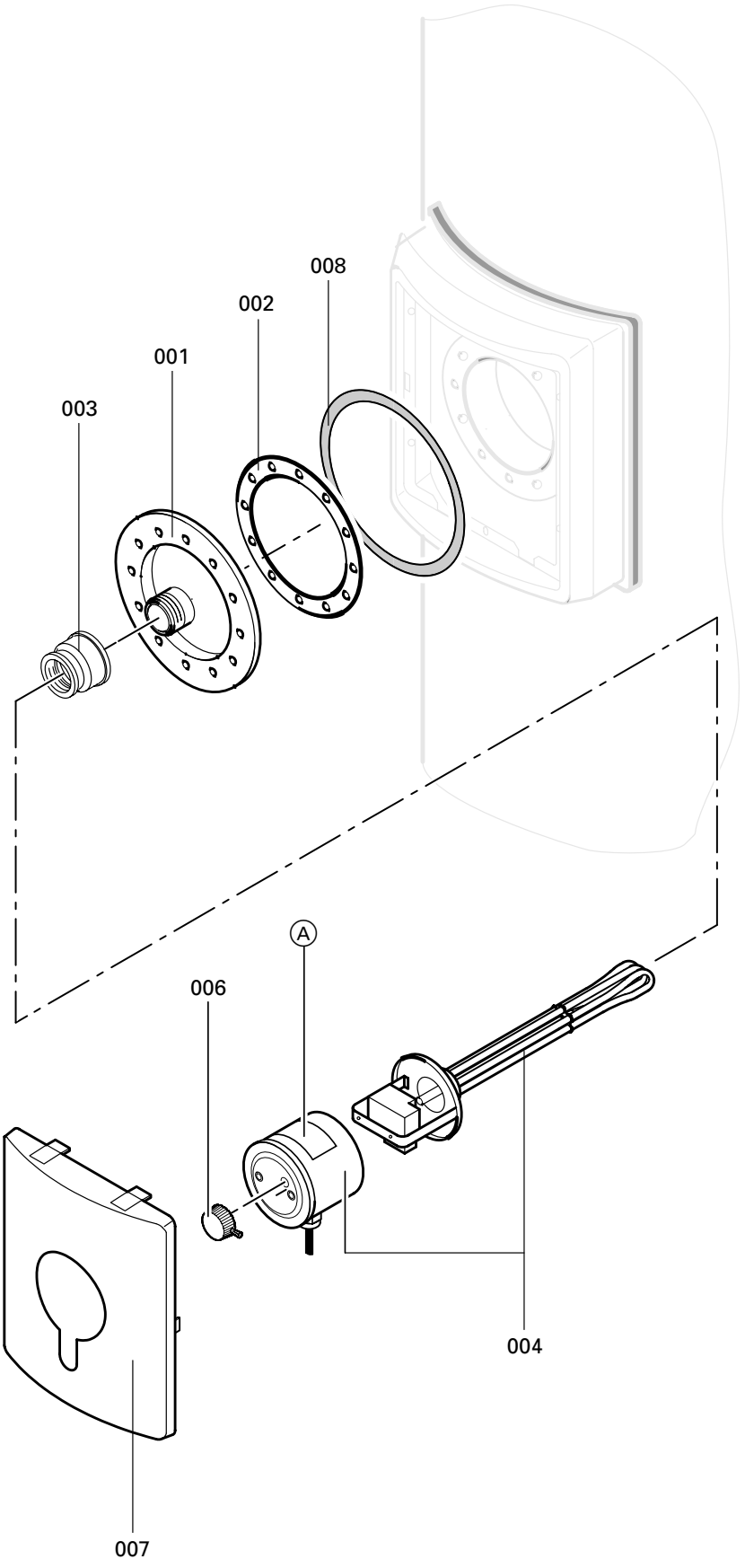
Electric immersion heater EHO, part no. 7265 197, for Vitocell-V 300, type EVI

When ordering spare parts:
Quote the part and serial no. of the equipment (see type plate) and the item no. of the required part (as per parts list).
Obtain common parts from your local supplier.

Parts
001 Flange (incl. item 002)
002 Gasket
003 Reducing coupling
004 Threaded immersion heater
005 Combination thermostat/high limit safety cut-out
006 Rotary selector
007 Cover
008 Edge protector

Parts (not shown)
010 Installation instructions
011 Operating instructions
013 Service instructions

Ⓐ Type plate



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Commissioning/service report

	Initial start-up	Maintenance/Service	Maintenance/Service	Maintenance/Service	Maintenance/Service
date:					
by:					

	Maintenance/Service	Maintenance/Service	Maintenance/Service	Maintenance/Service	Maintenance/Service
date:					
by:					

Declaration of Conformity for electric immersion heater EHO

We, Viessmann Werke GmbH&Co, D-35107 Allendorf, declare as sole responsible body, that the product with the type code

Electric immersion heater EHO for DHW cylinder Vitocell-V 100, type CVA and Vitocell-B 100, type CVB, Vitocell-V 300, type EVI, and Vitocell 333, type SVK

corresponds to the following standards:
EN 50 081-1
EN 50 082-1
EN 60 555-2
EN 60 555-3
EN 60 555-3/A

This product is identified in accordance with the following guidelines
73/ 23/EEC
89/336/EEC

as follows:

CE

Allendorf, the 1st February 1999

Viessmann Werke GmbH & Co

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